TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-27-03** **Date: 29-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/133/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-03-01
Sample Type	:	Priya cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-04-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg, Min)	258.5	225m^2/kg, Min
3	Density (gm/cc)	3.17	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

AEE (VRP) SD

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-27-03** **Date: 25-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/133/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-03-01
Sample Type	:	Priya cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	28-04-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0 N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0 N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5 N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-04-27-03** **Date: 02-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/133/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-03-03
Sample Type	:	Fine aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	27-04-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	72	72	7.2	92.8	90-100	90-100	90-100	95-100
3	2.36 mm	176	248	24.8	75.2	60-95	75-100	85-100	95-100
4	1.18 mm	125	373	37.3	62.7	30-70	55-90	75-100	90-100
5	600 micron	158	531	53.1	46.9	15-34	35-59	60-79	80-100
6	300 micron	273	804	80.4	19.6	5-20	8-30	12-40	15-50
7	150 micron	127	931	93.1	6.9	0-10	0-10	0-10	0-15
8	Pan	69	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-27-03** **Date: 02-05-17**

Sample ID No : 2017-04-27-03-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.34	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	5.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-27-03** **Date: 02-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/133/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	27-04-17
Sample ID No	:	2017-04-27-03-02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	28-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100.0	100
2	40 mm	824	824	5.5	94.5	90-100
3	20 mm	3688	4512	30.1	69.9	30-70
4	10 mm	7986	12498	83.3	16.7	10-35
5	4.75 mm	2069	14567	97.1	2.9	0-5
6	Pan	406	14973	99.8	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-27-03** **Date: 02-05-2017**

Sample ID No : 2017-04-27-03-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	1.58	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.39	–
6	Water Absorption(%)	0.21	–

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-11-02** **Date: 16-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore

Customer's Reference : BBMP/EE/BTP/WO/133/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-05-17

Sample ID No : 2017-05-11-02-01

Customer ID : CC Cubes

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 16/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Cubes	M20	09/05/2017	16/05/2017	151.22 X 148.54 X 150.36	22462	8.251	377.4	16.8	17.1
2	CC Cubes	M20	09/05/2017	16/05/2017	149.47 X 151.59 X 148.90	22658	8.238	392.0	17.3	
3	CC Cubes	M20	09/05/2017	16/05/2017	151.37 X 150.38 X 149.48	22763	8.196	393.8	17.3	

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Prepared by
Harsitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ
ಬೃ ಬೆಂ. ಮ. ಸೇ. ಬೆಂಗಳೂರು-೯೭

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-11-02** **Date: 06-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore

Customer's Reference : BBMP/EE/BTP/WO/133/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-05-17

Sample ID No : 2017-05-11-02-02

Customer ID : CC Cubes

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Cubes	M20	09/05/2017	06/06/2017	150.32 X 151.84 X 150.89	22825	8.188	507.6	22.2	22.1
2	CC Cubes	M20	09/05/2017	06/06/2017	149.72 X 150.74 X 151.55	22569	8.256	490.9	21.8	
3	CC Cubes	M20	09/05/2017	06/06/2017	148.52 X 150.54 X 149.55	22358	8.308	498.6	22.3	

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